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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR ATTORNEY DOCK		CONFIRMATION NO.	
10/074,068	02/12/2002	Xuecheng Liang	1655-P3002-001	6672	
23399	7590 10/21/2003	EXAMINER			
•	THINGTON, BARNE	YEE, DE	YEE, DEBORAH		
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TROY, MI 4	8099-4390	ART UNIT	PAPER NUMBER		
			1742		

DATE MAILED: 10/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

					A			
*		Application No.		Applicant(s)				
Office Action Summary		10/074,068		LIANG, XUECHEN	G]			
		Examiner		Art Unit				
		Deborah Yee	į	1742	0			
T Period for R	he MAILING DATE of this communication ap	pears on the cove	r sheet with the co	orrespondence ado	iress			
		VIC SET TO EV		EN EDOM				
THE MAI - Extension after SIX - If the peri - If NO peri - Failure to - Any reply	TENED STATUTORY PERIOD FOR REPL LING DATE OF THIS COMMUNICATION. s of time may be available under the provisions of 37 CFR 1. (6) MONTHS from the mailing date of this communication. od for reply specified above is less than thirty (30) days, a rep od for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statut received by the Office later than three months after the mailin tent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how oly within the statutory mi I will apply and will expire te, cause the application t	ever, may a reply be time nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	will be considered timely. he mailing date of this cor (35 U.S.C. § 133).				
1)□ R	esponsive to communication(s) filed on							
	·	—— his action is non-f	inal.					
3)□ S								
Disposition	of Claims							
4)⊠ Cla	aim(s) <u>1-15</u> is/are pending in the application	on.						
4a)	Of the above claim(s) is/are withdra	awn from consider	ation.					
5)□ Cla	aim(s) is/are allowed.							
6)⊠ Cla	aim(s) <u>1-15</u> is/are rejected.							
7)□ Cla	aim(s) is/are objected to.							
8) Classification	aim(s) are subject to restriction and/ Papers	or election require	ement.					
9)□ The	specification is objected to by the Examin	er.						
10)□ The	drawing(s) filed on is/are: a) acce	epted or b)⊡ objec	led to by the Exan	niner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
<u> </u>	er 35 U.S.C. §§ 119 and 120							
	knowledgment is made of a claim for foreig	n priority under 3	5 U.S.C. § 119(a)	-(d) or (f).				
a)∟ <i>A</i>	All b)☐ Some * c)☐ None of:							
1.[
2.[_ ' ' '							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	nowledgment is made of a claim for domes		·		application).			
_a) [The translation of the foreign language proposed for the foreign language	ovisional applicat	ion has been rece	ived.	,			
Attachment(s)		priority and or t	0.0.0. 33 120	and/01 141.				
1) Notice of 2) Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Notice of Informal P	(PTO-413) Paper No(s atent Application (PTO				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kataoka (US Patent 5,316,596), which was submitted by applicant in IDS filed April 15, 2002.

Kataoka in claim 2 of column 17 discloses a wear resistant iron alloy composition with constituents whose wt% ranges overlap those recited by the claims. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to establish a prima facie case of obviousness, see In re Malagari, 182USPQ549 and MPEP 2144.05.

Also note example P in Table 3 of column 11 which meets the claimed composition except for 0.4% Si. Since applicant has not demonstrated criticality of the Si range, then a composition with 1% Si vs. a composition with slightly less (say 0.4%)Si would depict a mere difference in the proportion of element without any attendant unexpected results, which would not patentably distinguish claim over prior art. Moreover, Kataoka in lines 14 to 18 of column 3 discloses up to 1.5% Si would serve as a deoxidation agent to remove oxides. Moreover, even though example P is a

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comparative example, it is still prior art because it has been published and known in the

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art.

Even though prior art does not teach a valve insert as recited by claim 15, such

would not be a patentable difference since using the insert for valve application is

merely future and intended use.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Deborah Yee whose telephone number is 703-308-

1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on 703-308-1146. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

dy